

SEQUENCE LISTING

<110> Huse, William D.

<120> Eukaryotic Expression Libraries and  
Methods of Use

<130> P-IX 5066

<150> US 09/724,762

<151> 2000-11-28

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DRAFT: EMBL/GenBank/NCBI

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Ala Thr Glu Lys Leu Ala Ser Gly  
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34

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<223> mutant lox P

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34

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<213> Streptoalloteichus hindustanus

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Met Ala Lys Leu Thr Ser Ala Val Pro Val Leu Thr Ala Arg Asp Val

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Ala Gly Ala Val Glu Phe Trp Thr Asp Arg Leu Gly Phe Ser Arg Asp

20 25 30

Phe Val Glu Asp Asp Phe Ala Gly Val Val Arg Asp Asp Val Thr Leu

35 40 45

Phe Ile Ser Ala Val Gln Asp Gln Val Val Pro Asp Asn Thr Leu Ala

50 55 60

Trp Val Trp Val Arg Gly Leu Asp Glu Leu Tyr Ala Glu Trp Ser Glu

65 70 75 80

Val Val Ser Thr Asn Phe Arg Asp Ala Ser Gly Pro Ala Met Thr Glu

85 90 95

Ile Gly Glu Gln Pro Trp Gly Arg Glu Phe Ala Leu Arg Asp Pro Ala

100 105 110

Gly Asn Cys Val His Phe Val Ala Glu Glu Gln Asp

115 120

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Met Arg Met Leu Gln Ser Ile Pro Ala Leu Pro Val Gly Asp Ile Lys  
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His Glu Asp Gly Phe Ala Val Leu Met Cys Asn Glu Val Arg Ile His  
35 40 45  
Leu Trp Glu Ala Ser Asp Glu Gly Trp Arg Ser Arg Ser Asn Asp Ser  
50 55 60  
Pro Val Cys Thr Gly Ala Glu Ser Phe Ile Ala Gly Thr Ala Ser Cys  
65 70 75 80  
Arg Ile Glu Val Glu Gly Ile Asp Glu Leu Tyr Gln His Ile Lys Pro  
85 90 95  
Leu Gly Ile Leu His Pro Asn Thr Ser Leu Lys Asp Gln Trp Trp Asp  
100 105 110  
Glu Arg Asp Phe Ala Val Ile Asp Pro Asp Asn Asn Leu Ile Ser Phe  
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Phe Gln Gln Ile Lys Ser  
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<213> E. coli transposon Tn5

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Ala Gly Trp Met Ile Leu Gln Arg Gly Asp Leu Met Leu Glu Phe Phe  
35 40 45  
Ala His Pro Gly Leu Asp Pro Leu Ala Ser Trp Phe Ser Cys Cys Leu  
50 55 60  
Arg Leu Asp Asp Leu Ala Glu Phe Tyr Arg Gln Cys Lys Ser Val Gly  
65 70 75 80  
Ile Gln Glu Thr Ser Ser Gly Tyr Pro Arg Ile His Ala Pro Glu Leu  
85 90 95  
Gln Glu Trp Gly Gly Thr Met Ala Ala Leu Val Asp Pro Asp Gly Thr  
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Leu Leu Arg Leu Ile Gln Asn Glu Leu Leu Ala Gly Ile Ser  
115 120 125

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Asp Phe Val Tyr Asp Asp Phe Ala  
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Asp Asn Thr Leu Ala Trp Val Trp Val  
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Val Thr Leu Phe Ile Ser Thr Val Gln Asp  
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Val Thr Leu Phe Ile Ser Ala Leu Gln Asp  
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Asp Asn Thr Leu Ala Trp Val Leu Val  
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Thr Pro Ile Gly Glu Gln Pro Trp Gly Arg Glu Phe Ala  
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Thr Glu Leu Gly Glu Gln Pro Trp Gly Arg Glu Phe Ala  
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Thr Glu Ile Gly Ser Gln Pro Trp Gly Arg Glu Phe Ala  
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<210> 89

<211> 574

<212> PRT

<213> Homo sapiens

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Glu Asp Asp Ile Ile Ala Thr Lys Asn Gly Lys Val Arg Gly Met  
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Asn Leu Thr Val Phe Gly Gly Thr Val Thr Ala Phe Leu Gly Ile Pro  
20 25 30  
Tyr Ala Gln Pro Pro Leu Gly Arg Leu Arg Phe Lys Lys Pro Gln Ser  
35 40 45  
Leu Thr Lys Trp Ser Asp Ile Trp Asn Ala Thr Lys Tyr Ala Asn Ser  
50 55 60  
Cys Cys Gln Asn Ile Asp Gln Ser Phe Pro Gly Phe His Gly Ser Glu  
65 70 75 80  
Met Trp Asn Pro Asn Thr Asp Leu Ser Glu Asp Cys Leu Tyr Leu Asn  
85 90 95  
Val Trp Ile Pro Ala Pro Lys Pro Lys Asn Ala Thr Val Leu Ile Trp  
100 105 110  
Ile Tyr Gly Gly Phe Gln Thr Gly Thr Ser Ser Leu His Val Tyr  
115 120 125  
Asp Gly Lys Phe Leu Ala Arg Val Glu Arg Val Ile Val Val Ser Met  
130 135 140  
Asn Tyr Arg Val Gly Ala Leu Gly Phe Leu Ala Leu Pro Gly Asn Pro  
145 150 155 160  
Glu Ala Pro Gly Asn Met Gly Leu Phe Asp Gln Gln Leu Ala Leu Gln  
165 170 175  
Trp Val Gln Lys Asn Ile Ala Ala Phe Gly Gly Asn Pro Lys Ser Val  
180 185 190  
Thr Leu Phe Gly Glu Ser Ala Gly Ala Ala Ser Val Ser Leu His Leu  
195 200 205

Leu Ser Pro Gly Ser His Ser Leu Phe Thr Arg Ala Ile Leu Gln Ser  
210 215 220  
Gly Ser Phe Asn Ala Pro Trp Ala Val Thr Ser Leu Tyr Glu Ala Arg  
225 230 235 240  
Asn Arg Thr Leu Asn Leu Ala Lys Leu Thr Gly Cys Ser Arg Glu Asn  
245 250 255  
Glu Thr Glu Ile Ile Lys Cys Leu Arg Asn Lys Asp Pro Gln Glu Ile  
260 265 270  
Leu Leu Asn Glu Ala Phe Val Val Pro Tyr Gly Thr Pro Leu Ser Val  
275 280 285  
Asn Phe Gly Pro Thr Val Asp Gly Asp Phe Leu Thr Asp Met Pro Asp  
290 295 300  
Ile Leu Leu Glu Leu Gly Gln Phe Lys Lys Thr Gln Ile Leu Val Gly  
305 310 315 320  
Val Asn Lys Asp Glu Gly Thr Ala Phe Leu Val Tyr Gly Ala Pro Gly  
325 330 335  
Phe Ser Lys Asp Asn Asn Ser Ile Ile Thr Arg Lys Glu Phe Gln Glu  
340 345 350  
Gly Leu Lys Ile Phe Phe Pro Gly Val Ser Glu Phe Gly Lys Glu Ser  
355 360 365  
Ile Leu Phe His Tyr Thr Asp Trp Val Asp Asp Gln Arg Pro Glu Asn  
370 375 380  
Tyr Arg Glu Ala Leu Gly Asp Val Val Gly Asp Tyr Asn Phe Ile Cys  
385 390 395 400  
Pro Ala Leu Glu Phe Thr Lys Lys Phe Ser Glu Trp Gly Asn Asn Ala  
405 410 415  
Phe Phe Tyr Phe Glu His Arg Ser Ser Lys Leu Pro Trp Pro Glu  
420 425 430  
Trp Met Gly Val Met His Gly Tyr Glu Ile Glu Phe Val Phe Gly Leu  
435 440 445  
Pro Leu Glu Arg Arg Asp Asn Tyr Thr Lys Ala Glu Glu Ile Leu Ser  
450 455 460  
Arg Ser Ile Val Lys Arg Trp Ala Asn Phe Ala Lys Tyr Gly Asn Pro  
465 470 475 480  
Asn Glu Thr Gln Asn Asn Ser Thr Ser Trp Pro Val Phe Lys Ser Thr  
485 490 495  
Glu Gln Lys Tyr Leu Thr Leu Asn Thr Glu Ser Thr Arg Ile Met Thr  
500 505 510  
Lys Leu Arg Ala Gln Gln Cys Arg Phe Trp Thr Ser Phe Phe Pro Lys  
515 520 525  
Val Leu Glu Met Thr Gly Asn Ile Asp Glu Ala Glu Trp Glu Trp Lys  
530 535 540  
Ala Gly Phe His Arg Trp Asn Asn Tyr Met Met Asp Trp Lys Asn Gln  
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<213> *Sacharomyces cervisiae*

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34